

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 79-41.

NPDES PERMIT NO. CA0005185

WASTE DISCHARGE REQUIREMENTS  
FOR  
MORTON SALT COMPANY  
NEWARK, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. Morton Salt Company (hereinafter called the discharger) located at 7380 Central Avenue in Newark operates a facility for the manufacture of salt. The discharger's current waste discharge requirements, Order No. 74-45, expire on April 19, 1979. The discharger has submitted a National Pollutant Discharge Elimination System (NPDES) Application for a Permit to Discharge (Short Form C) requesting renewal.
2. The discharger is currently discharging an average of 0.2 MGD of industrial wastewater containing pollutants into a drainage ditch. Condensate and cooling water from multiple-effect evaporators is collected and pumped to a cooling water pond and recycled, except for that portion which overflows into an adjacent drainage ditch. This ditch runs approximately one mile before draining into Alameda County Flood Control Ditch Line F-1, which is tributary to Plummer Creek and southern San Francisco Bay, both waters of the United States. The wastewater leaves the discharger's property approximately 150 feet southwest of the intersection of Filbert Street and Perrin Avenue in Newark. All other process wastewaters are collected in a wastewater recovery pond, settled, and recycled and are not discharged to waters of the United States. Sanitary wastes are discharged to the municipal sewers. The discharger also maintains two sludge ponds with a total area of 1.5 acres. Saline sludge from the plant's recrystallization process is deposited in the ponds for drying. After drying, the sludge is removed and used to construct dikes on the discharger's and Leslie Salt Company's properties.
3. On April 8, 1975, the Board adopted a Water Quality Control Plan for San Francisco Bay Basin. The Basin Plan contains water quality objectives for Plummer Creek.
4. The beneficial uses of Plummer Creek and southern San Francisco Bay are:
  - a. Recreation
  - b. Fish migration and habitat
  - c. Habitat and resting for waterfowl and migratory birds
  - d. Industrial water supply
  - e. Esthetic enjoyment

5. Effluent limitation and toxic effluent standards established pursuant to Section 208(b), 301, 304 and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.
6. The Board is not required to comply with the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (California Environmental Quality Act) as this is an NPDES permit and is exempt from such provisions per Section 13389 of the Water Code.
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
8. The Board in a public meeting heard and considered all comments pertaining to the discharge.
9. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from the date of hearing provided the Regional Administrator has no objections.

IT IS HEREBY ORDERED, Morton Salt Company in order to meet the provisions contained in Division 7 of the California Water Code, and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act, and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. The discharge of an effluent in excess of the following limits is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>30-day Average</u>	<u>Daily Max.</u>	<u>Instan- taneous Maximum</u>
Settleable Solids	ml/l-hr	0.1	-	0.2
Suspended Solids	lbs/day(kg/day)	63(28)	94(42)	-
	mg/l	30	45	-
Temperature	°F	-	-	100.0
Oil and Grease	lbs/day(kg/day)	10(4.5)	17(7.7)	-
	mg/l	5	8	-

2. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.

3. The toxicity of the waste as discharged, as measured by survival of test fish in 96-hour bioassays, shall not exceed the following:
  - a. Any determination: 70% minimum.
  - b. Average of any three or more consecutive determinations: 90% minimum.

B. Receiving Water Limitations

1. The discharge of waste shall not cause:
  - a. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
  - b. Floating, suspended or deposited macroscopic particulate matter or foam, in waters of the State at any place;
  - c. Bottom deposits or aquatic growths at any place;
  - d. Alteration of apparent color beyond present natural background levels in waters of the State at any place;
  - e. Increased turbidity above background levels in waters of the State at any place;
  - f. Alteration of temperature beyond present natural background levels which would result in any adverse effects upon the beneficial uses of waters of the State;
  - g. Toxic or other deleterious substances to be present in waters of the state in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. The two waste sludge ponds shall be maintained to prevent any overflow and any leaching to surface or ground waters. Any wastes which are removed from the sludge ponds shall be disposed of in such a manner that they shall not adversely affect waters of the State. The discharger shall notify the Board at least 30 days in advance of any proposed removal of wastes from the ponds and the disposal site.

2. The discharger shall comply with all sections of this Order immediately upon the expiration of Order 74-45, which is April 19, 1979.
3. This Order includes all the items of the attached "Standard Provisions, Reporting Requirements and Definitions, April 1977" with the exception of items A.5, A.7 and B.2.
4. This Order expires on April 19, 1984, and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 17, 1979.

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FRED H. DIERKER  
Executive Officer

Attachments:

"Standard Provisions, Reporting  
Requirements & Definitions,  
April, 1977"

Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

MORTON SALT COMPANY

NEWARK, ALAMEDA COUNTY

NPDES NO. CA 0005185

ORDER NO. 79-41

CONSISTS OF

PART A (1/78)

AND

PART B (Ordered April 25, 1979)

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E	At any point in the discharger's wastewater ditch between the point at which the wastewater leaves the discharger's property and the point at which all waste tributary to the ditch is present.

B. LAND OBSERVATIONS

<u>Station</u>	<u>Description</u>
L-1 through L-'n'	Located at points along the perimeter levees of the two sludge ponds at equidistant intervals not to exceed 50 feet. (A sketch showing the locations of these stations will accompany each report).

II. SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSES

The Schedule of sampling, measurements, and analyses shall be as given in TABLE I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-41.
2. Does not include the following paragraphs of Part A:  
  
C.3., C.4., C.5.a., C.5.c., C.5.e., D.1., D.3., E.1., E.2.b., E.4., F.2., F.3.e.
3. Does include modification of paragraph F.3 in Part A to require that written reports on results of self-monitoring shall be submitted for each calendar quarter by the 15th of the month following the end of each calendar quarter.
4. Is effective on the date shown below.
5. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

Effective Date April 25, 1979

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FRED H. DIERKER  
Executive Officer

TABLE I

SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSES  
FOR SELF-MONITORING PROGRAM  
FOR ORDER NO. \_\_\_\_ - \_\_\_\_

NPDES NO. CA0005185

Sampling Stations	E		L				
Type of Sample	C-24	G	O				
Flow Rate (mgd)	W						
Settleable Solids (ml/l-hr)		W					
Total Suspended Solids (mg/l & lbs/day)	W						
Temperature (°F)		D					
Oil and Grease (mg/l & kg/day)		M <sup>1/</sup>					
pH (units)		W					
Bioassay (% survival in undiluted waste)	M						
Total Dissolved Solids (mg/l & lbs/day)	M						
All Applicable Standard Observations		W	M				

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample  
C-24 = composite sample, 24-hour  
O = observation

FREQUENCY OF SAMPLING

D = once each day  
W = once each week  
M = once each month

TYPES OF STATIONS

E = waste effluent stations  
L = basin and/or pond stations

<sup>1/</sup> see attached "Oil and Grease Sample Collection"

## OIL AND GREASE SAMPLE COLLECTION

Oil and grease sampling shall consist of 3 grab samples taken at 8-hour intervals during the sampling day, with each grab being collected in a glass container and analyzed separately. Results shall be expressed as a weighted average of the 3 values, based upon the instantaneous flow rates occurring at the time of each grab sample.

If the plant is not staffed 24 hours per day or if the discharge does not occur continuously, then the three grab samples may be taken at approximately equal intervals during the period that the plant is staffed or during the period that discharge is made.

In the event that sampling for oil and grease shows an apparent violation of the waste discharge permit 30-day average limitation (considering the results of one day's sampling as a 30-day average), then the sampling frequency shall be increased to weekly, so that a true 30-day average can be computed and compliance can be determined.